

## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/978,2970

Source: FW16

Date Processed by STIC: 4/8/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 04/08/2005

PATENT APPLICATION: US/09/978,297D

TIME: 13:26:47

Input Set : A:\22716 Sequence Listing.txt

Output Set: N:\CRF4\04062005\I978297D.raw

3 <110> APPLICANT: Yacoby-Zeevi, Oron  
 5 <120> TITLE OF INVENTION: METHODS OF AND PHARMACEUTICAL COMPOSITIONS FOR IMPROVING  
 6 IMPLANTATION OF EMBRYOS  
 8 <130> FILE REFERENCE: 01/22716  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/978,297D  
 11 <141> CURRENT FILING DATE: 2001-10-17  
 13 <150> PRIOR APPLICATION NUMBER: US 09/260,037  
 14 <151> PRIOR FILING DATE: 1999-03-02  
 16 <150> PRIOR APPLICATION NUMBER: US 09/140,888  
 17 <151> PRIOR FILING DATE: 1998-08-27  
 19 <150> PRIOR APPLICATION NUMBER: US 09/046,475  
 20 <151> PRIOR FILING DATE: 1998-03-25  
 22 <150> PRIOR APPLICATION NUMBER: US 08/922,170  
 23 <151> PRIOR FILING DATE: 1997-09-02  
 25 <150> PRIOR APPLICATION NUMBER: PCT/US 60/240,037  
 26 <151> PRIOR FILING DATE: 2000-10-17  
 28 <160> NUMBER OF SEQ ID NOS: 7  
 30 <170> SOFTWARE: PatentIn version 3.3  
 32 <210> SEQ ID NO: 1  
 33 <211> LENGTH: 543  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Homo sapiens  
 37 <400> SEQUENCE: 1  
 39 Met Leu Leu Arg Ser Lys Pro Ala Leu Pro Pro Pro Leu Met Leu Leu  
 40 1 5 10 15  
 43 Leu Leu Gly Pro Leu Gly Pro Leu Ser Pro Gly Ala Leu Pro Arg Pro  
 44 20 25 30  
 47 Ala Gln Ala Gln Asp Val Val Asp Leu Asp Phe Phe Thr Gln Glu Pro  
 48 35 40 45  
 51 Leu His Leu Val Ser Pro Ser Phe Leu Ser Val Thr Ile Asp Ala Asn  
 52 50 55 60  
 55 Leu Ala Thr Asp Pro Arg Phe Leu Ile Leu Leu Gly Ser Pro Lys Leu  
 56 65 70 75 80  
 59 Arg Thr Leu Ala Arg Gly Leu Ser Pro Ala Tyr Leu Arg Phe Gly Gly  
 60 85 90 95  
 63 Thr Lys Thr Asp Phe Leu Ile Phe Asp Pro Lys Lys Glu Ser Thr Phe  
 64 100 105 110  
 67 Glu Glu Arg Ser Tyr Trp Gln Ser Gln Val Asn Gln Asp Ile Cys Lys  
 68 115 120 125  
 71 Tyr Gly Ser Ile Pro Pro Asp Val Glu Glu Lys Leu Arg Leu Glu Trp  
 72 130 135 140  
 75 Pro Tyr Gln Glu Gln Leu Leu Leu Arg Glu His Tyr Gln Lys Lys Phe  
 76 145 150 155 160

## RAW SEQUENCE LISTING

DATE: 04/08/2005

PATENT APPLICATION: US/09/978,297D

TIME: 13:26:47

Input Set : A:\22716 Sequence Listing.txt

Output Set: N:\CRF4\04062005\I978297D.raw

```

79 Lys Asn Ser Thr Tyr Ser Arg Ser Ser Val Asp Val Leu Tyr Thr Phe
80      165      170      175
83 Ala Asn Cys Ser Gly Leu Asp Leu Ile Phe Gly Leu Asn Ala Leu Leu
84      180      185      190
87 Arg Thr Ala Asp Leu Gln Trp Asn Ser Ser Asn Ala Gln Leu Leu Leu
88      195      200      205
91 Asp Tyr Cys Ser Ser Lys Gly Tyr Asn Ile Ser Trp Glu Leu Gly Asn
92      210      215      220
95 Glu Pro Asn Ser Phe Leu Lys Lys Ala Asp Ile Phe Ile Asn Gly Ser
96 225      230      235      240
99 Gln Leu Gly Glu Asp Tyr Ile Gln Leu His Lys Leu Leu Arg Lys Ser
100      245      250      255
103 Thr Phe Lys Asn Ala Lys Leu Tyr Gly Pro Asp Val Gly Gln Pro Arg
104      260      265      270
107 Arg Lys Thr Ala Lys Met Leu Lys Ser Phe Leu Lys Ala Gly Gly Glu
108      275      280      285
111 Val Ile Asp Ser Val Thr Trp His His Tyr Tyr Leu Asn Gly Arg Thr
112      290      295      300
115 Ala Thr Arg Glu Asp Phe Leu Asn Pro Asp Val Leu Asp Ile Phe Ile
116 305      310      315      320
119 Ser Ser Val Gln Lys Val Phe Gln Val Val Glu Ser Thr Arg Pro Gly
120      325      330      335
123 Lys Lys Val Trp Leu Gly Glu Thr Ser Ser Ala Tyr Gly Gly Gly Ala
124      340      345      350
127 Pro Leu Leu Ser Asp Thr Phe Ala Ala Gly Phe Met Trp Leu Asp Lys
128      355      360      365
131 Leu Gly Leu Ser Ala Arg Met Gly Ile Glu Val Val Met Arg Gln Val
132      370      375      380
135 Phe Phe Gly Ala Gly Asn Tyr His Leu Val Asp Glu Asn Phe Asp Pro
136 385      390      395      400
139 Leu Pro Asp Tyr Trp Leu Ser Leu Leu Phe Lys Lys Leu Val Gly Thr
140      405      410      415
143 Lys Val Leu Met Ala Ser Val Gln Gly Ser Lys Arg Arg Lys Leu Arg
144      420      425      430
147 Val Tyr Leu His Cys Thr Asn Thr Asp Asn Pro Arg Tyr Lys Glu Gly
148      435      440      445
151 Asp Leu Thr Leu Tyr Ala Ile Asn Leu His Asn Val Thr Lys Tyr Leu
152      450      455      460
155 Arg Leu Pro Tyr Pro Phe Ser Asn Lys Gln Val Asp Lys Tyr Leu Leu
156 465      470      475      480
159 Arg Pro Leu Gly Pro His Gly Leu Leu Ser Lys Ser Val Gln Leu Asn
160      485      490      495
163 Gly Leu Thr Leu Lys Met Val Asp Asp Gln Thr Leu Pro Pro Leu Met
164      500      505      510
167 Glu Lys Pro Leu Arg Pro Gly Ser Ser Leu Gly Leu Pro Ala Phe Ser
168      515      520      525
171 Tyr Ser Phe Phe Val Ile Arg Asn Ala Lys Val Ala Ala Cys Ile
172      530      535      540
175 <210> SEQ ID NO: 2

```

## RAW SEQUENCE LISTING

DATE: 04/08/2005

PATENT APPLICATION: US/09/978,297D

TIME: 13:26:47

Input Set : A:\22716 Sequence Listing.txt

Output Set: N:\CRF4\04062005\I978297D.raw

```

176 <211> LENGTH: 17
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Synthetic oligonucleotide
183 <400> SEQUENCE: 2
184 ataggcagct gacctga 17
187 <210> SEQ ID NO: 3
188 <211> LENGTH: 24
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Synthetic oligonucleotide
195 <400> SEQUENCE: 3
196 tgacttgaga ttgccagtaa cttc 24
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 24
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Synthetic oligonucleotide
207 <400> SEQUENCE: 4
208 ctgtccaact caatggtcta actc 24
211 <210> SEQ ID NO: 5
212 <211> LENGTH: 20
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Synthetic oligonucleotide
219 <400> SEQUENCE: 5
220 tctagagcct ctgctaacca 20
223 <210> SEQ ID NO: 6
224 <211> LENGTH: 1721
225 <212> TYPE: DNA
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 6
229 ctagagcttt cgactctccg ctgcgcgcca gctggcgggg ggagcagcca ggtgagccca 60
231 agatgctgct gcgctcgaag cctgcgctgc cgccgccgct gatgctgctg ctccctggggc 120
233 cgctgggtcc cctctccctt ggcgccttgc cccgacctgc gcaagcacag gacgtcgtgg 180
235 acctggactt cttcacccag gagccgctgc acctggtgag cccctcgttc ctgtccgtca 240
237 ccattgacgc caacctggcc acggacccgc ggttcctcat cctcctgggt tctccaaagc 300
239 ttcgtacctt ggccagagggc ttgtctcctg cgtacctgag gtttggtggc accaagacag 360
241 acttcctaata tttcgatccc aagaaggaat caacctttga agagagaagt tactggcaat 420
243 ctcaagtcaa ccaggatatt tgcaaatatg gatccatccc tcctgatgtg gaggagaagt 480
245 tacggttgga atggccctac caggagcaat tgctactccg agaacactac cagaaaaagt 540
247 tcaagaacag cacctactca agaagctctg tagatgtgct atacactttt gcaaactgct 600
249 caggactgga cttgatcttt ggcctaaatg cgttattaag aacagcagat ttgcagtgga 660
251 acagttctaa tgctcagttg ctccctggact actgctcttc caaggggtat aacatttctt 720
253 gggaactagg caatgaacct aacagtttcc ttaagaaggc tgatattttc atcaatgggt 780

```

## RAW SEQUENCE LISTING

DATE: 04/08/2005

PATENT APPLICATION: US/09/978,297D

TIME: 13:26:47

Input Set : A:\22716 Sequence Listing.txt

Output Set: N:\CRF4\04062005\I978297D.raw

```

255 cgcagttagg agaagattwt attcaattgc ataaacttct aagaaagtcc accttcaaaa      840
257 atgcaaaact ctatggctct gatgttggtc agcctcgaag aaagacggct aagatgctga      900
259 agagcttcct gaaggctggt ggagaagtga ttgattcagt tacatggcat cactactatt      960
261 tgaatggacg gactgctacc agggaagatt ttctaaaccc tgatgtattg gacattttta    1020
263 tttcatctgt gcaaaaagtt ttccagggtg ttgagagcac caggcctggc aagaagggtct    1080
265 ggtaggaga aacaagctct gcataatggag gcggagcgcc cttgctatcc gacacctttg    1140
267 cagctggctt tatgtggctg gataaattgg gctgtcagc ccgaatggga atagaagtgg    1200
269 tgatgaggca agtattcttt ggagcaggaa actaccattt agtggatgaa aacttcgac    1260
271 ctttacctga ttattggcta tctcttctgt tcaagaaatt ggtgggcacc aagggtgttaa    1320
273 tggcaagcgt gcaaggttca aagagaagga agcttcgagt ataccttcat tgcacaaaca    1380
275 ctgacaatcc aaggtataaa gaaggagatt taactctgta tgccataaac ctccataacg    1440
277 tcaccaagta cttgcggtta ccctatcctt tttctaacaa gcaagtggat aaataccttc    1500
279 taagaccttt gggacctcat ggattacttt ccaaatctgt ccaactcaat ggtctaactc    1560
281 taaagatggg ggatgatcaa accttgccac cttaaatgga aaaacctctc cggccaggaa    1620
283 gttcactggg cttgccagct ttctcatata gtttttttgt gataagaaat gccaaagtgt    1680
285 ctgcttgcat ctgaaaataa aatatactag tcctgacact g                                1721
288 <210> SEQ ID NO: 7
289 <211> LENGTH: 543
290 <212> TYPE: PRT
291 <213> ORGANISM: Homo sapiens
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (246)..(246)
297 <223> OTHER INFORMATION: Tyr or Phe
299 <400> SEQUENCE: 7
301 Met Leu Leu Arg Ser Lys Pro Ala Leu Pro Pro Pro Leu Met Leu Leu
302 1 5 10 15
305 Leu Leu Gly Pro Leu Gly Pro Leu Ser Pro Gly Ala Leu Pro Arg Pro
306 20 25 30
309 Ala Gln Ala Gln Asp Val Val Asp Leu Asp Phe Phe Thr Gln Glu Pro
310 35 40 45
313 Leu His Leu Val Ser Pro Ser Phe Leu Ser Val Thr Ile Asp Ala Asn
314 50 55 60
317 Leu Ala Thr Asp Pro Arg Phe Leu Ile Leu Leu Gly Ser Pro Lys Leu
318 65 70 75 80
321 Arg Thr Leu Ala Arg Gly Leu Ser Pro Ala Tyr Leu Arg Phe Gly Gly
322 85 90 95
325 Thr Lys Thr Asp Phe Leu Ile Phe Asp Pro Lys Lys Glu Ser Thr Phe
326 100 105 110
329 Glu Glu Arg Ser Tyr Trp Gln Ser Gln Val Asn Gln Asp Ile Cys Lys
330 115 120 125
333 Tyr Gly Ser Ile Pro Pro Asp Val Glu Glu Lys Leu Arg Leu Glu Trp
334 130 135 140
337 Pro Tyr Gln Glu Gln Leu Leu Arg Glu His Tyr Gln Lys Lys Phe
338 145 150 155 160
341 Lys Asn Ser Thr Tyr Ser Arg Ser Ser Val Asp Val Leu Tyr Thr Phe
342 165 170 175
345 Ala Asn Cys Ser Gly Leu Asp Leu Ile Phe Gly Leu Asn Ala Leu Leu
346 180 185 190

```

## RAW SEQUENCE LISTING

DATE: 04/08/2005

PATENT APPLICATION: US/09/978,297D

TIME: 13:26:47

Input Set : A:\22716 Sequence Listing.txt

Output Set: N:\CRF4\04062005\I978297D.raw

```

349 Arg Thr Ala Asp Leu Gln Trp Asn Ser Ser Asn Ala Gln Leu Leu Leu
350      195      200      205
353 Asp Tyr Cys Ser Ser Lys Gly Tyr Asn Ile Ser Trp Glu Leu Gly Asn
354      210      215      220
357 Glu Pro Asn Ser Phe Leu Lys Lys Ala Asp Ile Phe Ile Asn Gly Ser
358 225      230      235      240
W--> 361 Gln Leu Gly Glu Asp Xaa Ile Gln Leu His Lys Leu Leu Arg Lys Ser
362      245      250      255
365 Thr Phe Lys Asn Ala Lys Leu Tyr Gly Pro Asp Val Gly Gln Pro Arg
366      260      265      270
369 Arg Lys Thr Ala Lys Met Leu Lys Ser Phe Leu Lys Ala Gly Gly Glu
370      275      280      285
373 Val Ile Asp Ser Val Thr Trp His His Tyr Tyr Leu Asn Gly Arg Thr
374      290      295      300
377 Ala Thr Arg Glu Asp Phe Leu Asn Pro Asp Val Leu Asp Ile Phe Ile
378 305      310      315      320
381 Ser Ser Val Gln Lys Val Phe Gln Val Val Glu Ser Thr Arg Pro Gly
382      325      330      335
385 Lys Lys Val Trp Leu Gly Glu Thr Ser Ser Ala Tyr Gly Gly Gly Ala
386      340      345      350
389 Pro Leu Leu Ser Asp Thr Phe Ala Ala Gly Phe Met Trp Leu Asp Lys
390      355      360      365
393 Leu Gly Leu Ser Ala Arg Met Gly Ile Glu Val Val Met Arg Gln Val
394      370      375      380
397 Phe Phe Gly Ala Gly Asn Tyr His Leu Val Asp Glu Asn Phe Asp Pro
398 385      390      395      400
401 Leu Pro Asp Tyr Trp Leu Ser Leu Leu Phe Lys Lys Leu Val Gly Thr
402      405      410      415
405 Lys Val Leu Met Ala Ser Val Gln Gly Ser Lys Arg Arg Lys Leu Arg
406      420      425      430
409 Val Tyr Leu His Cys Thr Asn Thr Asp Asn Pro Arg Tyr Lys Glu Gly
410      435      440      445
413 Asp Leu Thr Leu Tyr Ala Ile Asn Leu His Asn Val Thr Lys Tyr Leu
414      450      455      460
417 Arg Leu Pro Tyr Pro Phe Ser Asn Lys Gln Val Asp Lys Tyr Leu Leu
418 465      470      475      480
421 Arg Pro Leu Gly Pro His Gly Leu Leu Ser Lys Ser Val Gln Leu Asn
422      485      490      495
425 Gly Leu Thr Leu Lys Met Val Asp Asp Gln Thr Leu Pro Pro Leu Met
426      500      505      510
429 Glu Lys Pro Leu Arg Pro Gly Ser Ser Leu Gly Leu Pro Ala Phe Ser
430      515      520      525
433 Tyr Ser Phe Phe Val Ile Arg Asn Ala Lys Val Ala Ala Cys Ile
434      530      535      540

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 04/08/2005  
PATENT APPLICATION:    US/09/978,297D      TIME: 13:26:48

Input Set : A:\22716 Sequence Listing.txt  
Output Set: N:\CRF4\04062005\I978297D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 246

VERIFICATION SUMMARY

DATE: 04/08/2005

PATENT APPLICATION: US/09/978,297D

TIME: 13:26:48

Input Set : A:\22716 Sequence Listing.txt

Output Set: N:\CRF4\04062005\I978297D.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240